

TITLE: Faculty – Environmental Engineering
DEPARTMENT: Department of Energy
AGENCY: National Energy Technology Laboratory (NETL)
LEVEL: Faculty
POSITION INFORMATION: Temporary, ~9 months Part-Time, (up to 20 hours per week)
DUTY LOCATION: Pittsburgh, PA
WHO MAY BE CONSIDERED: United States Citizens & Foreign Nationals with appropriate approval

SUMMARY:

Through the Oak Ridge Institute for Science and Education (ORISE) this posting seeks a faculty researcher who currently holds a full-time position at a degree-granting research institution, interested in participating as part of the geologic and environmental sciences focus area research team at NETL. NETL is a multi-disciplinary, scientific and technical-oriented national laboratory. NETL's Office of Research and Development (ORD) conducts research to evaluate environmental impacts and risk assessments associated with domestic energy resource development.

Geological carbon storage is part of a strategy to minimize the atmospheric release of greenhouse gasses, raising concerns that injected CO₂ may leak into overlying freshwater aquifers. This CO₂ leakage will likely alter native microbial populations that may affect the water quality parameters, yet the effect of CO₂ on freshwater microbial communities remains limited. A need exists to understand how a microbial community will phylogenetically and functionally change within CO₂ impacted freshwater aquifers. The carbon storage team is looking to recruit an individual who is able to perform metagenomic-based studies of CO₂ exposed freshwater microbial communities.

Applicants for this position must demonstrate knowledge of and have experience with metagenomic sequencing and metagenomic data analysis. Access to equipment, such as an Illumina sequencer and metagenomic data computing capabilities would complement existing resources at the NETL-Pittsburgh facility.

Familiarity with Environmental Microbiology and Bioinformatics is preferred. This position may extend to other areas of interest to NETL-ORD, such as unconventional oil and gas.

For more information about research ongoing in the Unconventional Resources Portfolio at NETL please visit <https://edx.netl.doe.gov/ucr/>

KEY REQUIREMENTS:

- Applicants must be U.S. Citizens or approved Foreign Nationals
- Suitable for this position, as determined by background investigation.
- Applicants must have a current position at a degree-granting institution and hold a PhD, with an ability to travel to the NETL-Pittsburgh facility to participate in on-site research

HOW TO APPLY:

Applicants should apply through the Oak Ridge Institute for Science and Education (ORISE) program. The ORISE Program provides opportunities for undergraduate students, recent graduates, graduate students, postdoctoral researchers, and faculty researchers. NETL utilizes the ORISE program to support research and work within NETL's Office of Research & Development.

- Interested applicants should complete the online application at <https://www.ornl.gov/netl/>
- In the online application, **list Djuna Gulliver as your requested mentor.** This will associate your application with this job posting.
- If you have additional questions please contact Nancy Andres, Nancy.Andres@NETL.DOE.GOV, who is the NETL ORISE program contact.